

REMARKS

This is in response to the Office Action dated November 21, 2007. Claims 1-2 and 4-34 are pending.

It is believed that the changes to claims 1 and 14 address and overcome the formality issues (including Section 112 issues) raised in the Office Action.

Claim 1 stands rejected under Section 103(a) as being allegedly unpatentable over Kawasaki in view of Goodman. This Section 103(a) rejection is respectfully traversed.

Claim 1 requires “an active layer, to which group I elements, group III elements, group IV elements, group V elements, or group VII elements are added . . . a blocking member for blocking the active layer from an atmosphere such that the atmosphere substantially does not never influence a region, in which a movable charge moves, of the active layer; and wherein said elements comprise (i) hydrogen and (ii) one or more of nitrogen, phosphorus, arsenic, and stibium, or not less than two of nitrogen, phosphorus, arsenic, and stibium, so that the *active layer is doped with both (i) and (ii)*.” Claim 1 as amended includes parts of original claim 3, and additional information.

The cited art fails to disclose or suggest doping with both (i) and (ii) as required by amended claim 1. Kawasaki and Goodman are both silent in this regard. Moreover, Wager (originally cited against claim 3) also fails to disclose or suggest adding hydrogen to the ZnO layer. Moreover, doping of a ZnO layer with nitrogen using ammonia gas as the nitrogen source does *not* inherently add hydrogen as a dopant to the ZnO layer. Thus, even the alleged combination fails to meet the invention of claim 1.

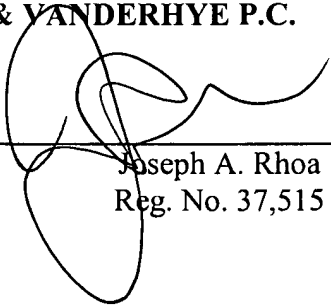
It is requested that all rejections be withdrawn. All claims are in condition for allowance.

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Respectfully submitted,

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